## Figure 1.

- Familly of enzymes that cleave penicillins and cephalosporins very efficiently
- A well caracterised isoform is the 29 kD TEM-1 Beta-lactamase
- 3D structure
- Hydrolysis mecanism
- Substrates and inhibitors
- Plasmid encoded ampicillin resistance gene from  $E.\ coli$

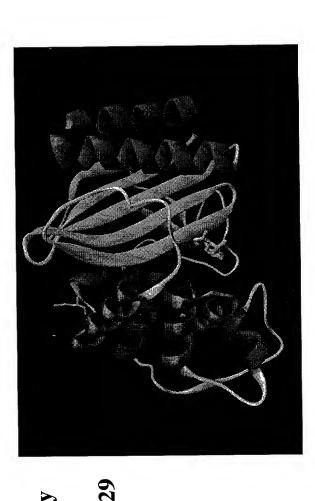
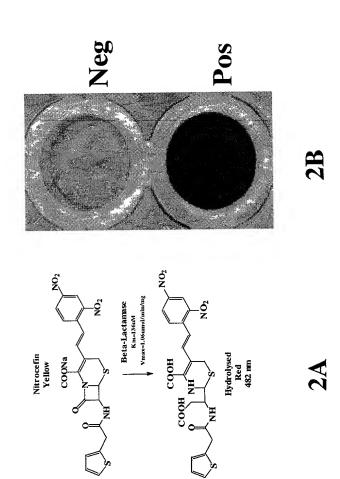
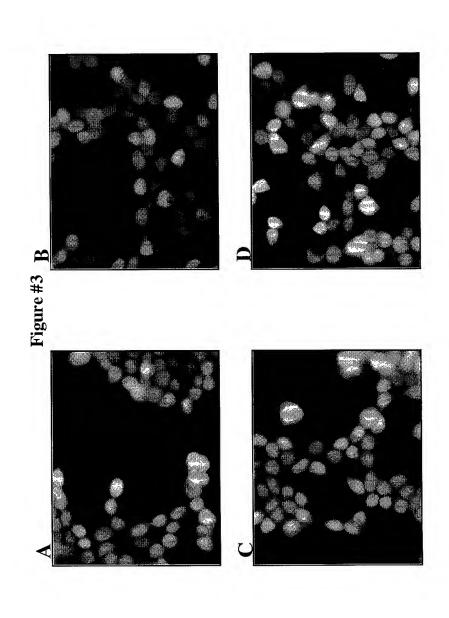
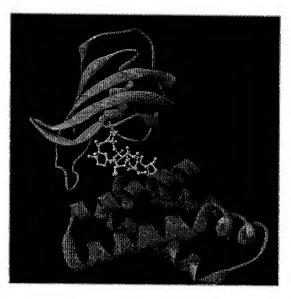


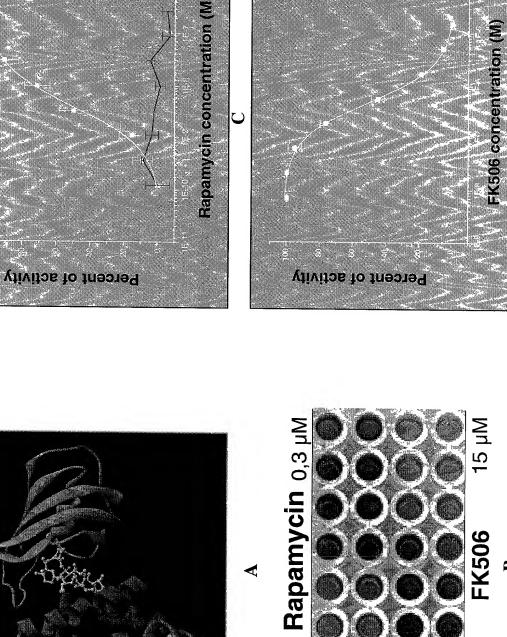
Figure #2





## FKBP/FRB Domain Figure #4





0,15 nM

6,9 nM